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ECONOMIC AND SOCIAL COUNCIL

ECONOMIC COMMISSION FOR AFRICA

Sixth meeting of the Technical Preparatory Committee of the Whole

Arusha, United Republic of Tanzania, 15-22 April 1985

Item 10 of the provisional agenda*

ECONOMIC COMMISSION FOR AFRICA

Twentieth session of the Commission/ Eleventh meeting of the Conference of Ministers

Arusha, United Republic of Tanzania, 25-29 April 1985

Item 11 of the provisional agenda*

FOLLOW-UP ACTIONS ON RESOLUTIONS AND DECISIONS ADOPTED BY THE NINETEENTH SESSION OF THE COMMISSION AND TENTH MEETING OF THE CONFERENCE OF MINISTERS

(Annex II only)

Annex II

UNITED NATIONS SUDANO-SAHELIAN OFFICE

PROJECT OF THE GOVERNMENTS OF ALL AFRICAN MEMBER STATES OF THE ECONOMIC COMMISSION FOR AFRICA

Draft Project Document

Project title: ESTABLISHMENT OF AN AFRICAN CENTRE OF METEOROLOGICAL

APPLICATIONS FOR DEVELOPMENT (ACMAD)

APPLICATIONS FOR DEVELOPMENT (ACMAD)

Project number: RAF/85/.....

Duration: 6 years

Sector: Environment

Subsector: Combating drought and desertification

Government

implementing agencies: Ministries responsible for the Meteorological

Departments in ECA member States

Executing agency: United Nations Economic Commission for Africa in

co-operation with the World Meteorological Organization

Associated

executing agencies: FAO, UNEP, UNSO, UNRISD

Estimated starting date: June 1985

		Phase I, 1986-1987	Phase II, 1988-1990
Government inputs:	(in kind)	\$US 210,000	\$US 510,000
UNSO input:		1,633,000	7,471,000
ECA input:		118,000	177,000
WMO input:		112,000	168,000
FAO input:		62,000	93,000
UNEP input:		72,000	108,000
Grand total:		\$US 2,207,000	\$US 8,527,000
ECA input: WMO input: FAO input: UNEP input:		118,000 112,000 62,000 72,000	177,000 168,000 93,000 108,000

Section I - LEGAL CONTEST

Please delete paragraph 2.

Section II - THE PROJECT

A. Development objectives: Please renumber paragraph as 2.

B. Immediate objectives: Please change paragraph 4 to read 3.

C. Special considerations: Please delete paragraph 5 and replace by the following three paragraphs, renumbered 4 to 6:

- 4. The project to establish an African Centre of Meteorological Applications for Development (ACMAD) will promote technical cooperation (TCDC) among the 36 African countries affected by drought and desertification. The Centre will collect meteorological data and observations from each affected African country on a regular basis (probably weekly), process and analyse the data by electronic computers, compare the results with weather data supplied by satellites over the same period, and disseminate regular reports on the weather patterns and trends in a country, including the subregion around it. Thus one of the functions of the Centre will be to provide information as an early warning system for drought and desertification in the affected African countries, besides its research and training activities.
- The activities of the proposed centre ACMAD will complement the FAO Global Information and Early Warning System on Food and Agriculture which makes use of agrometeorological data obtained by monitoring water balance of agricultural crops in the field every ten days. Also, it is known that the International Livestock Centre for Africa (ILCA) has been receiving fully processed satellite imagery of the vegetation cover in Africa from NASA Goddard Space Flight Centre in the USA obtained by the National Oceanic and Atmospheric Administration (NOAA) satellite. The NOAA-7 satellite gives an effective large-scale reconnaissance of the vegetation cover by measuring the earth's reflectance three times a month. for three consecutive days. From the nine NOAA-7 images per month sent to a satellite receiving station for any area of the world, a computer can process the digital tape data to indicate: the effect of drought on the plant cover to serve as early warning system; the spread of desertification over a time interval; seasonal changes in the vegetation cover, including bushfires, flooding, deciduousness, deforestation, regrowth; and the grass biomass production in rangelands in kg/ha., especially over inaccessible parts in arid lands.
- 6. Whilst the FAO Early Warning System is global and makes use of agrometeorological data from some Sahelian and some southern African countries in SADCC, the ILCA/NASA project and the ECA/WMO proposed ACMAD centre will cover the whole of Africa, with ILCA making use of satellite imagery of vegetation patterns and changes and ACMAD making use of ground and upper atmospheric observations of meteorological data for application to development activities.

D. Background and justification

Please renumber paragraphs from 6 to 9 to read 7 to 10.

E. Outputs: and F. Activities: Please renumber paragraphs from 10-12 to read 11-13.

G. Inputs:

- (i) Please renumber the paragraph as 14 and re-order the contributions (a) to (f) as follows under these headings:
 - (a) Government inputs: (see page 11).
 - (b) UNSO inputs: (see pages 12-14, which is revised as indicated below).
 - (c) WMO inputs: (see page 10).
 - (d) Inputs by other agencies and organizations (FAO, UNEP): (see pages 11-12).
 - (e) ECA inputs: (see page 10).
- (ii) Wherever UNDP/UNSO appears, delete UNDP leaving UNSO.
- (iii) New (b) UNSO inputs to read as follows:

UNSO's contribution to the project is expected to start after the ECA Conference of Ministers has accepted the Report of the ECA/WMO Feasibility Study to establish the African Centre of Meteorological Applications for Development (ACMAD) in 1985. During Phase I (1986-1987) and Phase II (1988-1990) UNSO's contribution is estimated to be as follows:

Phas	e I, 1986-1987									
(i)	Personnel at ACMAD, Nairobi (per year)	M/M	In \$US							
	a. Scientific Executive Director (L6)	12	170,000							
	b. Five senior scientists (L4/L5) 12									
	c. Short-term consultancy for training	6	25,000							
	d. Administrative support:									
	i. 10 technicians/secretaries (G6-G9)	12	180,000							
	ii. 2 administrative assistants (L1/L2)	12	168,000							
(ii)	Travel of project personnel (ECA and WMO)		30,000							
(iii)	Mission cost (participation by UNSO)		10,000							
(iv)	Training workshops at ACMAD, Nairobi (one per ye	ar)								
	a. Servicing, interpretation and translation f (10-14 days)		20,000							
	b. 20 national specialists, travel and DSA for (10-14 days)		60,000							
(v)	Subtotal	••	1,283,000							
(v)	Equipment for ACMAD during Phase I (1986-1987)									
1.1.	a. None-expendable equipment									
	Quantity Description	Cos	t in \$US							
	1 Minicomputer (VAX 750)		5,000							
	5 Microcomputers 1 Executive desk and chair	2.	5,000 700							
	6 Junior executive desks and chairs	3	0,000							
	4 Secretarial desks and chairs		0,000							
	8 Office desks and chairs		0,000							
	5 IBM electric typewriters	9	0,000							
	5 Typewriter carrier desks	1	400 0,000							
	20 Filing cabinets with keys 20 Bookcases and/or shelves		0,000							
	20 Bookeases and/or sherves									
	Sub-Total	31	1,100							
	b. Expendable	1	0,000							
(vi)	Reporting costs (Printing and dissemination of weather bulletins fortnightly and climate report	s) 2	4,000							

(vii) Contingencies at ACMAD

UNSO Grand total for Phase I (1986-1987):

5,000

\$US 1,633,**1**00

Phase II, 1988-1990 (additional staff and equipment to Phase I)

			•
		M/M	In \$US
(i)	Personnel at ACMAD, Nairobi (per year)		
	a. 5 additional senior scientists, (L4/L5)	12	1,200,000
	b. 10 additional technicians/secretaries, (G6-G9)	12	580,000
	c. 2 more administrative assistants, L1/L2)	12	336,000
(ii)	Equipment for ACMAD during Phase II, 1988-1990		
	a. Non-expendable equipment		
	<u>Quantity</u> <u>Description</u>		Cost in \$US
	1 Computer Main Frame (CRAY II) 10 Microcomputers 5 Junior executive desks and chairs 4 Secretarial desks and chairs 8 Office desks and chairs 4 IBM electric typewriters 4 Typewriter carrier desks 20 Filing Cabinets 20 Bookcases and/or shelves 1 Indexer Total b. Expendable: soft ware UNSO additional total for Phase II (1988-1990)		3,500,000 60,000 30,000 20,000 44,000 90,000 400 10,000 600 3,765,000
(£)	Tota	1 for	Total for
(f)	Estimated project cost Per year Phas	e I	Phase II
	(in \$U	S)	
	(i) ECA contribution 59,000 118,	000	177,000
	(ii) WMO contribution 56,000 112,		
		000	93,000
	 (iv) UNEP contribution 36,000 72, (v) Member States contribution - 210, (vi) UNSO contribution - 1,633, 	000	

H. Work plan

- 15. A provisional work plan to indicate the major activities to be carried out each quarter of a year from 1985 to 1990, is attached as Annex II B. A more detailed work plan for each phase, I 1986-1987 and II 1988+1990 will be worked out for the implementation of the project, in consultation with UNSO, WMO and ECA.
 - I. Preparation of the framework for effective participation of national and international staff in the project
- 16. After the establishment of the Centre (ACMAD), participating governments will second national experts in meteorology to work at the centre for limited periods of three to six months, as stated under government inputs in paragraph 14 (a) of this project document.
 - J. Development support communications
- 17. Not applicable.

K. Institutional framework

- 18. The Joint Intergovernmental Regional Committee on Human Settlements and Environment (Joint IGRC/HUS/ENV), as a subsidiary body of the Commission will review progress on the establishment of the centre as well as on the work programme of ACMAD after establishment. The Joint Committee (IGRC/HUS/ENV) will report through the Technical Preparatory Committee of the Whole to the ECA Conference of Ministers of Planning and Economic Development. These legislative bodies of the Commission will formulate policies, issue directives and take decisions on the work of the centre (ACMAD).
- 19. The African Centre of Meteorological Applications for Development (ACMAD) will be governed by a management authority such as a board of governors consisting of representatives from various ministries (agriculture, water resources, environment, natural resources, energy, forestry, wildlife, development and planning) of the Government of Kenya, and representatives from UNSO, ECA, WMO, FAO, UNEP, the UNDP Resident Co-ordinator, the University of Nairobi, Kenya, the Director for the Regional Centre for Services in Surveying, Mapping and Remote Sensing (RCSSMRS), Kenya, with the Executive Director of ACMAD acting as Secretary to the board. The Board of Governors will report to the Joint Committee (IGRC/HUS/ENV) at the latter's meetings every 18 months.
- 20. The Economic Commission for Africa and the World Meteorological Organization will serve as joint executing agencies for the project from the feasibility stage until the final establishment of the centre under Phases I and II. The ECA Secretariat, through its Environment Section, Social Development, Environment and Human Settlements Division will provide the necessary administrative backstopping whilst professional and technical guidance to ACMAD will be provided by the WMO Secretariat through its World Climate Programme Department for both training and research.

L. Prior obligations and prerequisites

21. Not applicable.

M. Future UNDP or UNSO assistance

22. The provision of financial support for the establishment of the African Centre of Meteorological Applications for Development (ACMAD) during Phase I by UNSO is being supported by other United Nations organizations (ECA, WMO, UNEP, FAO). It is noted that the level of support for Phase II is far greater than that for Phase I, hence UNDP's assistance as well as bilateral support may have to be solicited for the successful implementation of the project.

III. SCHEDULE OF MONITORING, EVALUATION AND REPORTS

A. Monitoring and technical reviews

23. The UNDP Resident Representative accredited to the Government of Kenya will convene the meetings of the management authority of the centre in Nairobi, in cooperation with the director. He will monitor the implementation of the project in accordance with the policies and procedures established by UNDP/UNSO. ECA, WMO and UNSO will carry out technical reviews of the project activities at the end of Phase I and II.

B. Evaluation

24. The project will be subjected to evaluation in accordance with the policies and procedures established for the purpose by UNDP/UNSO. The organization, terms of reference and timing of evaluation will be decided by consultations between UNSO, ECA and WMO.

C. Progress and terminal reports

25. The project Director of ACMAD will prepare six monthly progress reports on the activities and achievements of the project with the cooperation of ECA and WMO. At the end of the project after Phase II, the executing agencies, ECA and WMO, will submit a comprehensive terminal report evaluating the overall performance of the project in relation to its objectives, its impacts and future trends for improving national capabilities to forecast drought.

IV. BUDGET

26. The estimated cost of the services and facilities to be provided for the project by UNSO is detailed in the budget section of this document, as Annex II A.

PROJECT BUDGET COVERING UNSO'S CONTRIBUTIONS (in US dollars

Region:

Africa

Project No.:

RAF/85/....

Project title:

Establishment of an African Centre of Meteorological Applications

for Development (ACMAD)

PHASE I

	·	1986	1.	987
	M/M	\$US	M/M	\$US
10.00 PROJECT PERSONNEL				
1.00 EXPERTS				
11.01 Scientific Director (L6) 11.02 Senior Scientists (L4/L5) 11.03 Short-term consultants	12 60 3	80,000 300,000 12,500	12 60 3	90,000 320,000 12,500
1.99 Component total	75	392,500	75	422,500
3.00 ADMINISTRATIVE SUPPORT PERSONNEL	· · . · . · . · . · . · . · . · .			
3.01 Administrative Assistants (L1/L2 3.02 Secretarial support (G6-G9) 3.03 Technicians (G6-G9)) 24 48 72	80,900 32 ,000 50,000	24 48 72	88,000 40,000 58,000
3.99 Component total	144	162,000	144	186,000
5.00 TRAVEL				
5.01 Travel of project personnel		15,000		15,000
6.00 MISSION COSTS	· · .			a estr
6.01 Mission travel by UNSO		5,000	***	5,000
9.00 Component total	-	20,000		20,000

PH	ASE I	1006	1	987	
Project component	M/M	1986 \$US	M/M	\$US	
30.00 GROUP TRAINING					
31.00 Servicing of 2 Training workshops		10,000	· ·	10,000	
32.00 Travel and DSA for 20 participants for 10-14 days to each workshop	-	28,000		32,000	
39.00 Component total	-	38,000		42,000	:
40.00 EQUIPMENT			April 1975	· ·	•
41.01 Expendable equipment 41.02 Non-expendable equipment	-	5,000 311,100		5,000	
49.00 Component Total	-	316,100		5/, 00:0	:,;°.
50.00 MISCELLANEOUS				jart sakti.	
51.01 Reporting costs (translation, etc.)	-	10,000	, . . .	14,000	Po.
51.02—Sundries (dissemination of fortnightly bulletins and climate reports)		2,500	-	2,500	
51.99 Component total		12,500	· -	16,500	
99.00 Grand total for PHASE I 1986-1987	219	941,100	219	692,000	
		<u> </u>			

PHASE II

			1988		198 9	1990			
	Project component	M/M	\$US	M/M	\$US	M/M	\$US		
10.00	PROJECT PERSONNEL								
11.00	EXPERTS								
11.01 11.02 11.03	Scientific Director (L6) Senior scientists (L4/L5) Short-term consultants	12 84 4	92,000 502,000 13,000	12 96 4	95,000 576,000 14,000	12 120 4	98,000 722,000 15,000		
1.99	Component total	100	610,000	112	685,000	136	832,000		
3.00	ADMINISTRATIVE SUPPORT PERSONNEL								
3.01 3.02 3.03	Administrative Assistants(L1/L2) Secretarial support(G6-G9) Technicians (G6-G9)	36 72 96	130,000 86,000 120,000	48 96 120	170,000 116,000 148,000	48 96 120	204,000 127,000 163,000		
3.99	Component total	204	336,000	264	434,000	264	494,000		
.5.00	TRAVEL								
5.01	Travel of project personnel	-	17,000	:4,5	20,000	-	23,000		
6.00	MISSION COSTS								
6.01	Mission travel by UNSO		5,000		5,000		5,000		
9.00	Component total	-	22,000	-	25,000	_	28,000		
0.00	GROUP TRAINING								
1.00	Servicing of 3 Training workshops	_	10,000	-	10,000	-	10,000		
2.00	Travel and DSA for 20 participants for 10-14 days to each workshop		3 0 _# 000.	i. -	30,000	-	30,000		
9.00	Component total	-	40,000	_	40,000	-	40,000		
0.00	EQUIPMENT								
1.01 1.02	Expendable equipment Non-expendable equipment		2 0,000		20,000 3,765,000	-	20,000		
9.00	Component total	_	20,000		3,785,000	_	20,000		

PHASE II

			1938 1988 1989	. ;	1989		1990 💂
	Project component	M/M	\$US	M/M	\$US	M/M	\$US
50.00	MISCELLANEOUS						
51.01	Reporting costs (translations etc.)		15,000	-	16,000		17,009
51.02	Sundries (dissemination of fortnightly bulletins and climatic reports)	_	; 3;000		4,000	_	5,000
51.99	Component total		18,000	-	20,000	-	22,000
99.00	Grand total for PHASE II 1988 - 1990	_304	1,046,000	376	4,989,000	400	1,436,000
				Ξ	7,471,000		

K. WORK PLAN/PROJECT IMPLEMENTATION PLAN

For the Project Life Span

Establishment of an African Centre of Meteorological Applications for Development (ACMAD)

Remark

RAF/85/.... oject number:

nding source:

oject:

UNSO

SDEHS Division - Environment in Africa Programme vision/Programme:

		Phase I - Implementation Schedule 1985 to 1987
Outputs and Activities	Primary Responsibility	1985 (Quarters) 1986 (Quarters) 1987 (Quarters) 1st 2nd 3rd 4th 1st 2nd 3rd 4th
Inter-Agency Mission to Govt. of Kenya	ECA/WMO	x
Report of Feasibility Study on ACMAD to ECA Conference of Ministers	ECA	X ·
Ad-hoc Inter-Agency Meeting on follow-up action for ACMAD	ECA	X ·
Report to 3rd meeting of Joint Intergovt. Committee on Human Settlements & Environment	ECA	X
ECA/WMO Agreement with Govt. of Kenya to set up ACMAD	ECA/WMO	X :
Recruitment of Director and staff for ACMAD	ECA/WMO	X
Acquisition of data processing and other equipment for ACMAD	ECA/WMO	X :

	Phase I - Implementation Schedule 1985 to 1987													
Outputs and Activities	Primary Responsibility		•	uarte 3rd	rs) 4th			uarte 3rd						Remarks
Establishment of networks with WMO's RMC, RTH with ACMAD	WMO/ACMAD	,				X.		,						
Printing and dissemination of weather reports by ACMAD	ACMAD					Х	Х	X	Χ .	Х	X	Χ	X	
Establishment of global networks with WMO/WWW main trunk and satellites	MMO/ACMAD							Х						
Development of Work Programme and Budget for PHASE II	ECA/WMO/ACMAD								X					
Annual Training Wirkshops for 20 nationals	ECA/WMO/ACMAD								X				Х	

		Phase II - Implementation Schedule 1988-1990												
Outputs and Activities	Primary Responsibility			uarte 3rd			9 (Qi 2nd							Remarks
Expansion of existing buildings for ACMAD	ACMAD/Govt. of Kenya	Х	Х	X	Х									
Build-up of additional staff for ACMAD	ACMAD					X	X	χ	Х	X	Х	Х:	X	
Acquisition of additional equipment for ACMAD	ACMAD/WMO					Х	Х	X	Х					
Extension of telecommunications network with ACMAD	WMO/ACMAD							Χ	Χ.					
Annual training workshops for 20 national experts at ACMAD					X				Χ				X	
Preparation of project	ECA/WMO/ACMAD												Х	